APR 20 2007
THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

GARDELLA et al.

Appl. No.: 10/549,592 (U.S. Nat'l Phase of

PCT/US2003/008261)

§ 371 Date: January 12, 2007

For: (

Conformationally Constrained

Parathyroid Hormones With α-

Helix Stabilizers

Confirmation No.: 2201

Art Unit: 1654

Examiner: To

To Be Assigned

Atty. Docket: 0609.5150000/TJS/PAC

Information Disclosure Statement under 37 C.F.R. § 1.97(b)

Mail Stop Amendment

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying IDS Forms, PTO/SB/08A and PTO/SB/08B are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of documents **FP1** and **NPL1-NPL36** are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), copies of U.S. patents, documents **US1** to **US5**, cited on the attached IDS Form, PTO/SB/08A, are not submitted.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may

not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Paul A. Calvo

Attorney for Applicants Registration No. 57,913

and A. Calso

Date: 4/20/07

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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TRADEMA Substitute for form 1449/PTO Complete if Known 10/549,592 (U.S. Nat'l Phase of Application Number PCT/US2003/008261) INFORMATION DISCLOSURE § 371 Date January 12, 2007 STATEMENT BY APPLICANT First Named Inventor GARDELLA, Thomas J. (Use as many sheets as necessary) Art Unit 1654 **Examiner Name** To Be Assigned

Attorney Docket Number

			U.S. PATENT DO	CUMENTS	
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or	Pages, Columns, Lines,
	NO.	Number-Kind Code ^{2 (If Known)}	MIMI-DD-1111	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear
	US1	4,675,189	06/23/1987	Kent et al.	
	US2	4,698,328	10/06/1987	Neer et al.	
	US3	4,761,406	08/02/1988	Flora et al.	
	US4	6,030,709	02/29/2000	Adermann et al.	
	US5	2002/0110871	08/15/2002	Zahradnik et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where	
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			Relevant Passages or Relevant Figures Appear	Te
	FP1	WO 97/02834	01/30/1997	Biomeasure Incorporated		
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Substitute for	form 1449/PT0)	CAT & TH		Complete if Known		
				Application Number	10/549,592 (U.S. Nat'l Phase of PCT/US2003/008261)	of	
INFORMATION DISCLOSURE				§ 371 Date	January 12, 2007		
STATE	MENT BY			First Named Inventor	GARDELLA, Thomas J.		
	(Use as many s	heets as ne	cessary)	Art Unit	1654		
				Examiner Name	To Be Assigned		
Sheet	1	of	4	Attorney Docket Num	ber 0609.5150000/TJS/PAC		
			Non Pat	ENT LITERATURE DOC	CUMENTS		
Examiner Initials*	Cite No. ¹		item (book, ma		s), title of the article (when appropriate), title sium, catalog, etc.), date, page(s), volume-/or country where published	T ²	
	NPL1	Barden, J.A. and Kemp, B.E., "NMR Solution Structure of Human Parathyro					
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Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



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NEODA			001155	Application Number	10/549,592 (U.S. Nat'l Phase of PCT/US2003/008261)
INFORMATION DISCLOSURE				§ 371 Date	January 12, 2007
STATEMENT BY APPLICANT				First Named Inventor	GARDELLA, Thomas J.
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				Examiner Name	To Be Assigned
Sheet	2	of	4	Attorney Docket Number	0609.5150000/TJS/PAC

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		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T
	NPL11	Fairwell, T., et al., "Total Solid-Phase Synthesis, Purification, and Characterization of Human Parathyroid Hormone-(1-84)," <i>Biochemistry</i> 22:2691-2697, American Chemical Society (1983)	
	NPL12	Gronwald, W., et al., "Structure of Recombinant Human Parathyroid Hormone in Solution Using Multidimensional NMR Spectroscopy," Chem. Hoppe-Seyler 377:175-186, Walter de Gruyter & Co. (1996)	
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		2122		Application Number	10/549,592 (U.S. Nat'l Phase of PCT/US2003/008261)	
INFORMA				§ 371 Date	January 12, 2007	
STATEME				First Named Inventor	GARDELLA, Thomas J.	
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				Examiner Name	To Be Assigned	
Sheet	3	of	4	Attorney Docket Number	0609.5150000/TJS/PAC	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T ²
	NPL20	Marx, U.C., et al., "Structure-Activity Relation of NH ₂ -terminal Human Parathyroid Hormone Fragments," J. Biol. Chem 273:4308-4316, American Society for Biochemistry and Molecular Biology, Inc. (1998)	
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	NPL24	Robinson J.R. ed., "Methods to Achieve Controlled Drug Delivery," in: Sustained and Controlled Release Drug Delivery Systems, Marcel Dekker, New York, NY, pp 557-593 (1978)	
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	NPL27	Shimizu, M., et al., "Minimization of Parathyroid Hormone," J. Biol. Chem. 275:21836-21843, The American Society for Biochemistry and Molecular Biology, Inc. (2000)	
	NPL28	Shimizu, M., et al., "Enhanced Activity in Parathyroid Hormone-(1-14) and -(1-11): Novel Peptides for Probing Ligand-Receptor Interactions," <i>Endocrinol.</i> 142:3068-3074, Endocrine Society (2001)	i

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111505144					Application Number	10/549,592 (U.S. Nat'l Phase of PCT/US2003/008261)
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(Use as many sheets as necessary)					Art Unit	1654
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Sheet	4	of	4		Attorney Docket Number	0609.5150000/TJS/PAC

		NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	aminer Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropria				
	NPL29	Shimizu, N., et al., "Parathyroid Hormone (PTH)-(1-14) and -(1-11) Analogs Conformationally Constrained by α-Aminosobutyric Acid Mediate Full Agonist Responses via the Juxtamembrane Region of the PTH-1 Receptor," J. Biol. Chem. 276:49003-49012, The American Society for Biochemistry and Molecular Biology, Inc. (2001)			
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·	NPL31	Takasu, H., et al., "Amino Terminal Modifications of Human Parathyroid Hormone (PTH) Selectively Alter Phospholipase C Signaling via the Type 1 PTH Receptor: Implications for Design for Signal-Specific PTH Ligands," Biochemistry 38:13453-13460, American Chemical Society (1999)			
	NPL32	Takasu, H., et al., "Dual Signaling and Ligand Selectivity of the Human PTH/PTHrP Receptor," J. Bone Min. Res. 14:11-20, Blackwell Science, Inc. (1999)			
NPL33		Tregear, G.W., et al., "Bovine Parathyroid Hormone: Minimum Chain Length of Synthetic Peptide Required for Biological Activity," Endocrinol. 93:1349-1353, The Endocrine Society (1973)			
	NPL34	Whitefield, J.F., et al., "Restoration of Severely Depleted Femoral Trabecular Bone in Ovariectomized Rats by Parathyroid Hormone-(1-34)," Calcif. Tissue Int. 56:227-231, Springer-Verlag Inc. (1995)			
	NPL35	Whitfield, J.F., et al., "Comparison of the Ability of Recombinant Human Parathyroid Hormone, rhPTH-(1-84), and hPTH-(1-31)NH ₂ Stimulate Femoral Trabecular Bone Growth in Ovariectomized Rats," Calcif. Tissue Int. 60:26-29, Springer-Verlag Inc. (1997)			
	Wold, F., "Posttranslational Protein Modifications: Perspectives and Prospect in Posttranslational Covalent Modifications of Proteins, B.C. Johnson, eds., Academic Press, Inc., New York, pp. 1-12 (1983)				

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